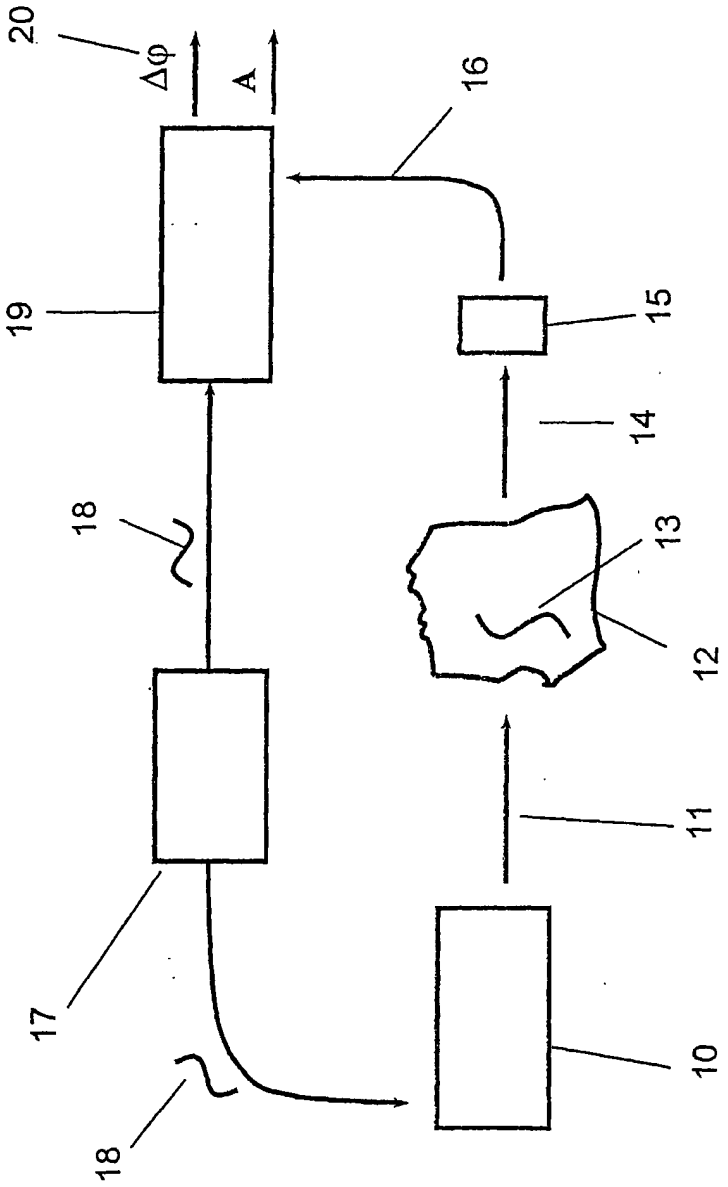


Fig. 1

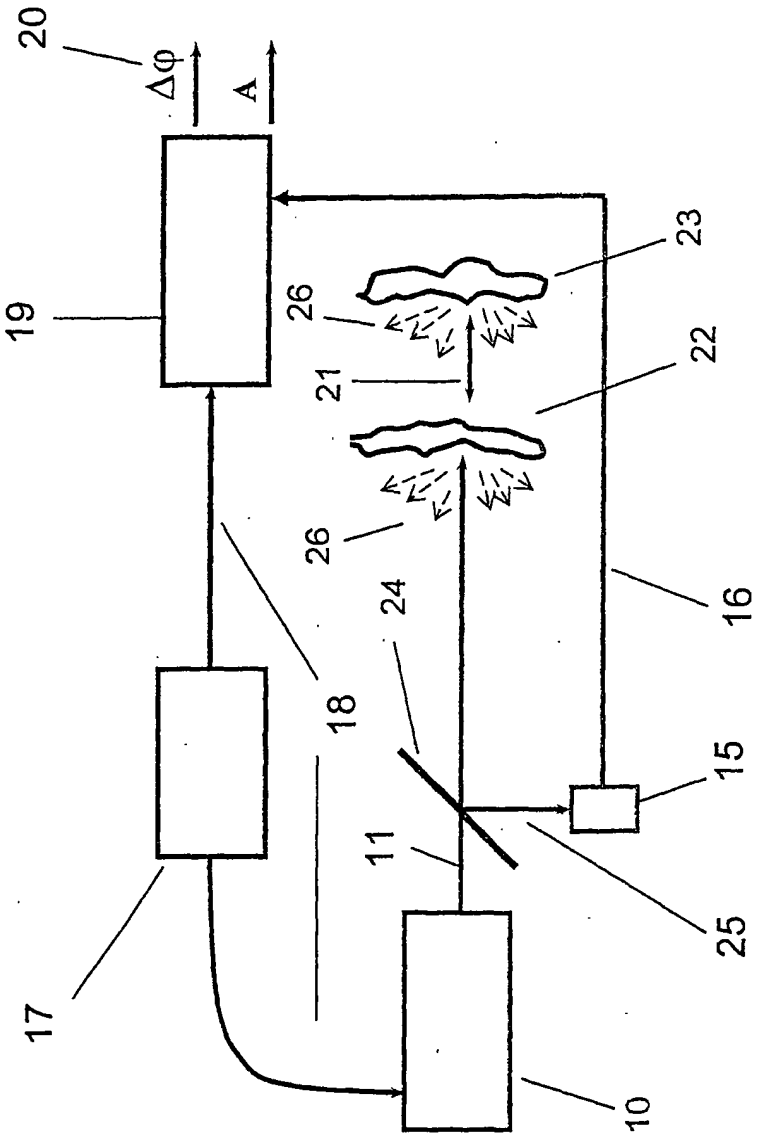


Fig. 2

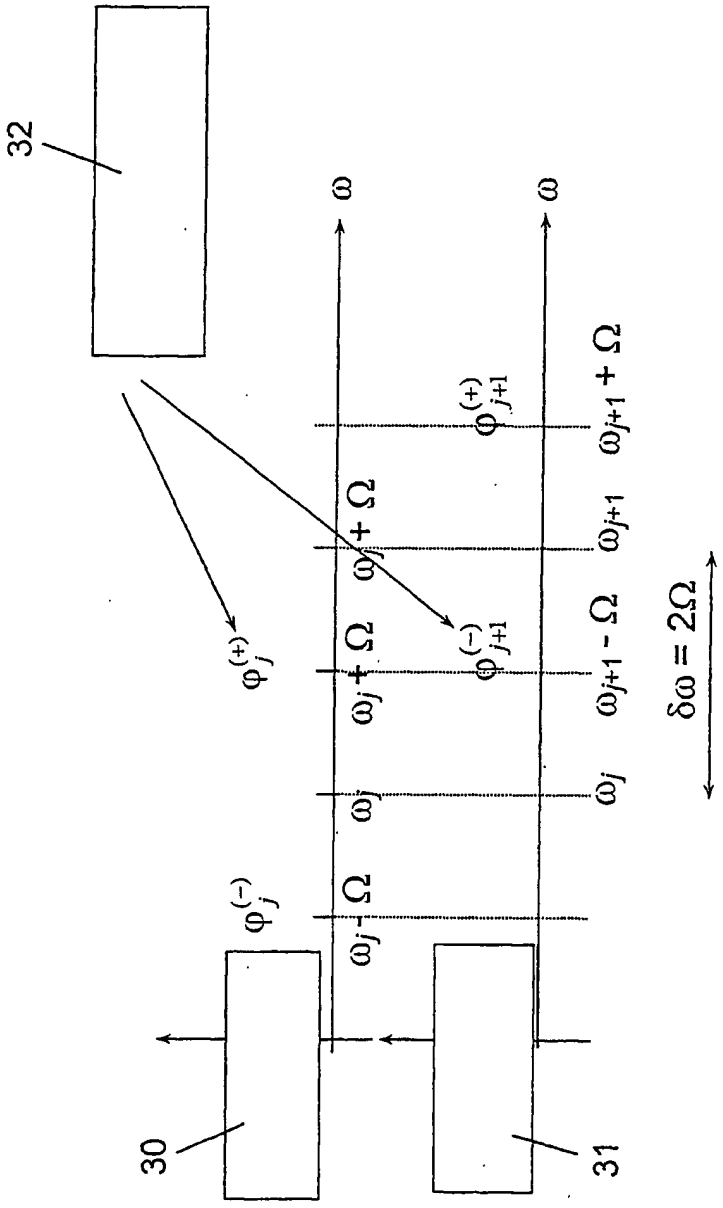

32
ω
ω
$\varphi_{j+1}^{(+)}$
$\omega_{j+1} + \Omega$
$\omega_j + \Omega$
ω_{j+1}
$\varphi_j^{(+)}$
$\varphi_{j+1}^{(-)}$
$\omega_j + \Omega$
$\omega_{j+1} - \Omega$
$\delta\omega = 2\Omega$
ω_j
ω_j
$\varphi_j^{(-)}$
$\omega_j - \Omega$
30
31

Fig. 3

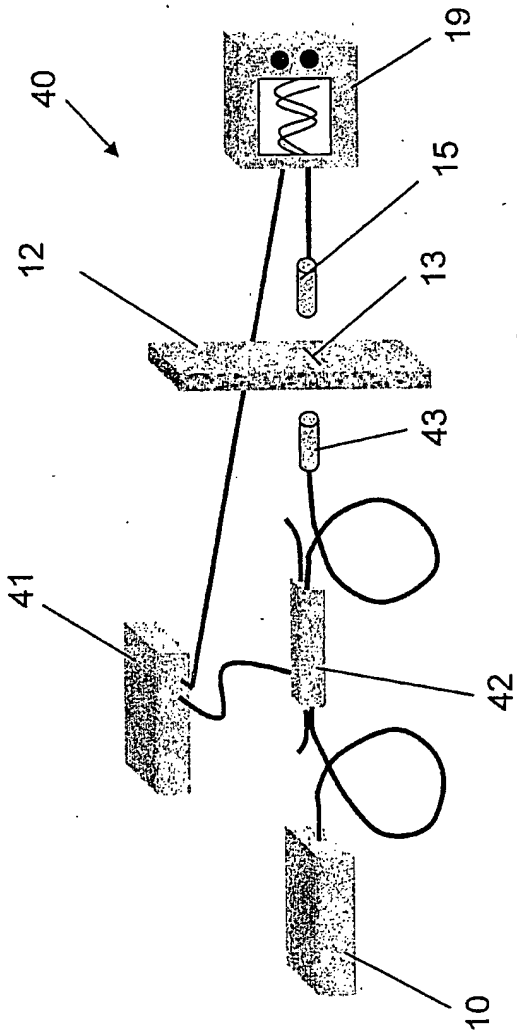


Fig. 4A

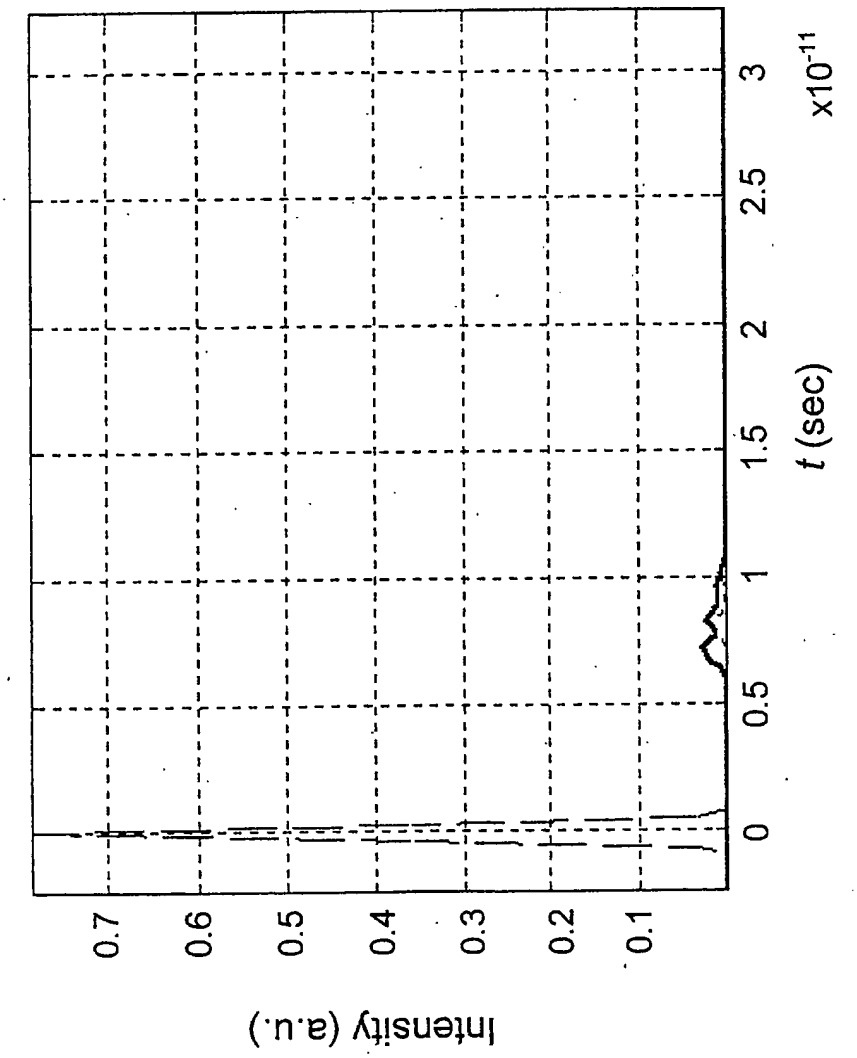
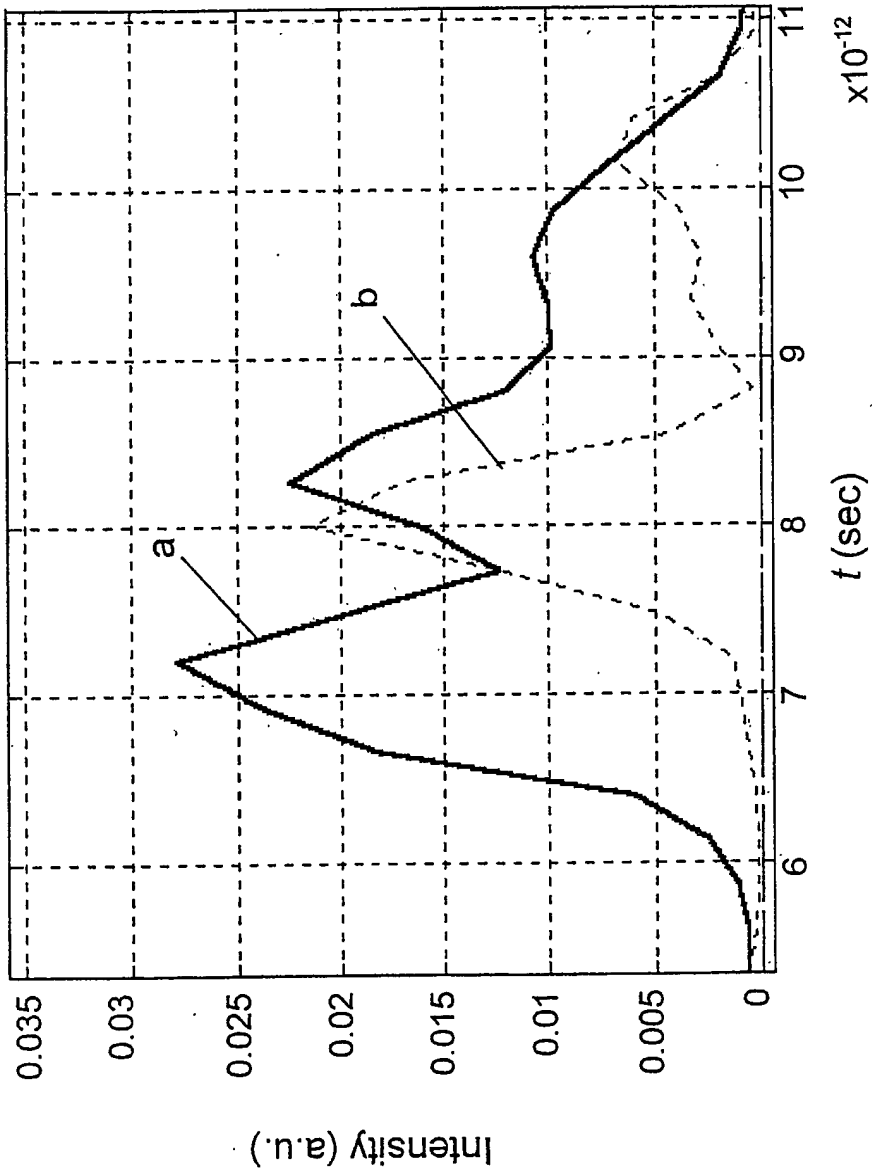


Fig. 4B


Intensity (a.u.)
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0.03
0.025
0.02
0.015
0.01
0.005
0
6
7
8
9
10
11
x10^-12
t (sec)
a
b

Fig. 4C